

PORTSMOUTH EM SITE SPECIFIC ADVISORY BOARD

•OSU Endeavor Center• 1862 Shyville Road • Piketon, Ohio 45661 • (740) 289-5249 •

Proposed Agenda for the May 4, 2017 Board Meeting

Chair

Robert L. Berry

Ronda J. Kinnamon

Bernard S. Neal Irma C. Payne

Cynthia Quillen

Judy R. Vollrath

Jimmy E. Smalley

Neil Leist

6 p.m.

Co-Vice Chairs Call to Order, Introductions

Lisa Bennett Review of Agenda

Carlton L. Cave Approval of March Minutes

Board Members DDFO Comments --15 minutes

Eric A. Braun
Bradley Burns
Federal Coordinator Comments --10 minutes

Maddeline C. Caudill

Liaison Comments -- 5 minutes

Carl R. Hartley

Presentation--20 minutes

• Portsmouth DUF6 Overview, Bob Giroir-Mid-America Conversion Services

Ohio University Student ASER Project Recognition-Dan Kloepfer, Ohio University

• Wheelersburg Science Bowl Team Recognition-Greg Simonton, DOE

Administrative Issues --20 minutes

• PORTS SSAB Recommendation 17-01 on FY 2019 Budget Priorities

o Public Comments on Recommendation

Board Comments on Recommendation

Subcommittee Updates --5 minutes

Deputy Designated
Federal Official

Public Comments
--15 minutes

Joel Bradburne

Final Comments from the Board

--15 minutes

DOE Federal Coordinator

Greg Simonton Adjourn

Support Services EHI Consultants, Inc. 1862 Shyville Road Piketon, OH 45661 Phone 740.289.5249 Fax 740.289.1578



PORTSMOUTH EM SITE SPECIFIC ADVISORY BOARD

MINUTES OF THE THURSDAY, MAY 4, 2017, SSAB MEETING • 6:00 P.M.

Location: The Ohio State University Endeavor Center, Room 160, Piketon, Ohio

Site Specific Advisory Board (SSAB) Members Present: Chair Bob Berry, Co Vice-Chairs, Lisa Bennett and Carlton Cave; Brad Burns, Carol Caudill, Al Don Cisco, Dennis Foreman, Carl Hartley, Ronda Kinnamon, Bernie Neal, Cynthia Quillen, Jimmy Smalley, Judy Vollrath

SSAB Members Absent: Eric Braun, Charlene Payne

U.S. Department of Energy (DOE) and Contractors: Joel Bradburne, Greg Simonton, DOE; Rick Greene, Restoration Services, Inc. (RSI); Julie Galloway, Cindy Lewis, EHI Consultants (EHI); Jeff Wagner, Fluor-BWXT Portsmouth (FBP)

Liaisons: Mike Rubadue, Shannon Dettmer, Ohio Department of Health (ODH); Dustin Tschudy, Ohio Environmental Protection Agency (EPA)

Facilitator: Eric Roberts, EHI

Public: Damon Detillion PMA; Madelyn Little, Bradon Wooldridge, Kevin Shoemaker, Southern Ohio Diversification Initiative (SODI); Bob Arour, Mark Hauserman, Tim Warren, William Blake, Mid-America Conversion Services (MCS); Diana Cahall

| 1 | Approved by Bob Berry, Board Chair | | |
|---|------------------------------------|--|--|
| | | | |
| | | | |
| | | | |
| | Bob Berry | | |

Call to Order:

Berry: I would like to call the meeting to order.

Roberts: I would like to welcome everyone, and I will be facilitating the meeting. There will be a public comment period after the presentations. The board should stay within its defined scope and follow the meeting ground rules adopted.

May Agenda:

Roberts: Are there any modifications or proposed changes to the May agenda?

- *Cave:* I make a motion to approve the March agenda.
- *Quillen:* I second the motion.
 - o Motion carried, agenda approved

March Minutes:

Roberts: Are there any modifications or proposed changes to the March minutes?

- **Burns:** I make a motion to approve the March minutes.
- **Bennett:** I second the motion.
 - o Motion carried, minutes approved

DDFO comments provided by Joel Bradburne, Site Lead, DOE:

- D&D Safety Update
- PORTS Integrated Baseline
- Property Transfer
- Project Update
- Project Update X-333 Update
- Project Update
- Project Update-Balance of Plant
- OSWDF Update
- Environmental Remediation
- Community Outreach-SODI Donations
- Plant Tours
- Educational Outreach Science Bowl V
- Educational Outreach
- Community Outreach
- Upcoming Site Events

| Question/Comment: | Answer: |
|----------------------------------|---|
| Smalley: Do you still have small | Bradburne: We are getting rid of all the |
| cylinders? | small stuff unless we would need them, |
| | just not that many. |

A copy of the DDFO presentation is available on the SSAB web site (www.ports-ssab.energy.gov)

Federal Project Coordinator comments provided by Greg Simonton, Federal Project Coordinator:

Simonton: I would like to thank Michael and Shannon for meeting with us this week. We have the first draft of our environment baseline survey and have received comments back from them. Wheelersburg was the winner of our regional science bowl. Jacob Lewis a junior, Gus a freshman and their Coach Paul Boll are here to tell us about their experiences at the national level.

Liaison comments provided by Dustin Tschudy, OEPA:

Tschudy: Lately we have been working on the Environmental Baseline Survey (EBS). We are currently reviewing the 90% design for the on-site waste facility and the 60% design of the leachate.

Liaison comments provided by Mike Rubadue, ODH:

Rubadue: ODH has been working on the EBS. As Dustin said, we have been working on the 90% design and the leachate system. I would like everyone to know I have accepted a new position at ODH and this will be my last board meeting. I do not know if they will be hiring another person in this position. In the meantime Shannon will be sitting in on your meetings.

| will be sitting in on your meetings. | | |
|--------------------------------------|---|--|
| Question/Comment: | Answer: | |
| Foreman: Can you clarify this 90% | <i>Tschudy:</i> There is 30%, 60%, 90%. This | |
| waste 60% leachate. | allows us to make comments as the | |
| | designs are being put together in the | |
| | different stages, so when I say 30% | |
| | design, it doesn't have a lot of details. The | |
| | 90% is for the on-site waste disposal | |
| | facility, the 60% is for the intermediate | |
| | leachate treatment system. | |

Portsmouth DUF6 Overview by Bob Giroir, Mid-America Conversion Services:

- Who we are
- Our Leadership Team
- MCS Portsmouth Leadership Team
- MCS Vision
- Purpose of the Portsmouth DUF6 Project
- Portsmouth Conversion Facility
- Cylinder and By-Product Work Flow
- DUF6 Conversion Process
- Cylinder Yards
- Transportation-Aqueous HF
- Kev Safety Aspects
- Current Status
- Mid-American Conversion Services

| Question/Comment: | Answer: |
|---|---|
| Kinnamon: Where are you shipping to? | Giroir: The cylinders are right back in the cylinder meter. Once they have been processed the cylinders have been modified it goes back to the government to make a determination whether it be a product or a waste. That has not been determined yet. |
| What is your biggest challenge right now? | Funding, as with anything. |
| Foreman: Out of the 219 jobs how many are local? | Giroir: All of them are. |
| You said the cylinders are considered as waste. | It is managed as waste because the waste criteria that was established to make sure we stay safe. It is just a technique to manage it. |
| So does that mean that stuff will go into a waste cell? | No it will not. |

Ohio University Student ASER Project Recognition- Dan Kloepfer, Ohio University:

- Important aspects of the project
 - o Rotates yearly between local high schools
 - Educates local students about the environmental restoration activities that take place at the PORTS site
 - o Teaches them technical writing skills
- Deliverables

o Student Summary Document of the full ASER document

| Question/Comment: | Answer: |
|--|---------|
| Kloepfer: We had 51 students working | |
| on the project this year. We have Bradon | |
| Wooldridge, Corey Thacker, Madelyn | |
| Little, Chase Newton as well as the | |
| chemistry teacher Katrina Queen to talk | |
| briefly about the project. | |

Administrative Issues: The National Chairs meeting is May 8-11, 2017.

PORTS SSAB Recommendation 17-01 on FY 2019 Budget Priorities discussion:

| Question/Comment: | Answer: |
|---|--------------------------------------|
| Roberts: Are there any changes you | |
| want to make to the recommendation? | |
| Caudill: I have a few suggestions for | Roberts: Ok. Go over the changes and |

| changes in words used. | Julie will change them up on the board. | |
|---|---|--|
| Foreman: What does the word "efforts" | Roberts: What if we use recycle instead | |
| mean? I do not like "efforts", what could | of efforts. | |
| we use instead? | | |
| Kinnamon: We need to look at this | | |
| recommendation, as it will be read 10 | | |
| years from now. We know what we | | |
| mean, but will they in ten years? | | |

Bennett: I would like to make a motion that we go forward with this recommendation. **Burns:** I would like to second the motion.

Public Comments: None

Board Comments: None

Motion approved (11 approved, 0 opposed, 1 abstained, 0 recused)

Subcommittee Updates:

Budget and Lifecycle Planning Subcommittee Update by Judy Vollrath:

Vollrath: The Budget and Lifecycle Planning Subcommittee met on March 14. The purpose of the meeting was to discuss a Recommendation on the FY 2019 budget priorities. The subcommittee met again on April 11. The purpose of the meeting was to have a 2018 budget update and discuss recommendation 17-01.

D&D/Remediation Subcommittee Update by Al Don Cisco:

Cisco: The D&D/Remediation and Future Use Subcommittee met on March 14. The purpose of the meeting was to have a NDA overview. The subcommittee met again on April 11. The purpose of the meeting was to give a summary on OSWDF modeling.

Future Use Subcommittee Update by Dennis Foreman:

Foreman: The D&D/Remediation and Future Use Subcommittee met on March 14. The purpose of the meeting was to present an overview on training programs. The subcommittee met again on April 11. The purpose of the meeting was to discuss future use planning from A-Zand a recap of the FFE study.

Historic Legacy & Community Engagement Subcommittee Update by Carol Caudill:

Caudill: The Historic Legacy & Community Engagement Subcommittee met on March 14. The purpose of the meeting was to have a Science Bowl recap. The subcommittee met again on April 11. The purpose of the meeting was to have a presentation on local purchasing.

Public Comment: None

Final Comments from the board:

Foreman: I want to thank Jack Williams for helping with our school quiz bowl.

Berry: Adjourned

Next Meeting: TBA

Action Items:

1. EHI to make changes and mail Recommendation 17-01.



DEPUTY DESIGNATED FEDERAL OFFICIAL PRESENTATION

Joel Bradburne, Site Lead U.S. Department of Energy

Portsmouth Site Specific Advisory Board May 4, 2017





- Safety
- Project Updates
 - Property Transfer
 - X-326 & X-333 Deactivation
 - On-Site Waste Disposal Facility (OSWDF)
- Community Outreach
- Upcoming Events



D&D Safety Update

March was workplace eye safety month.





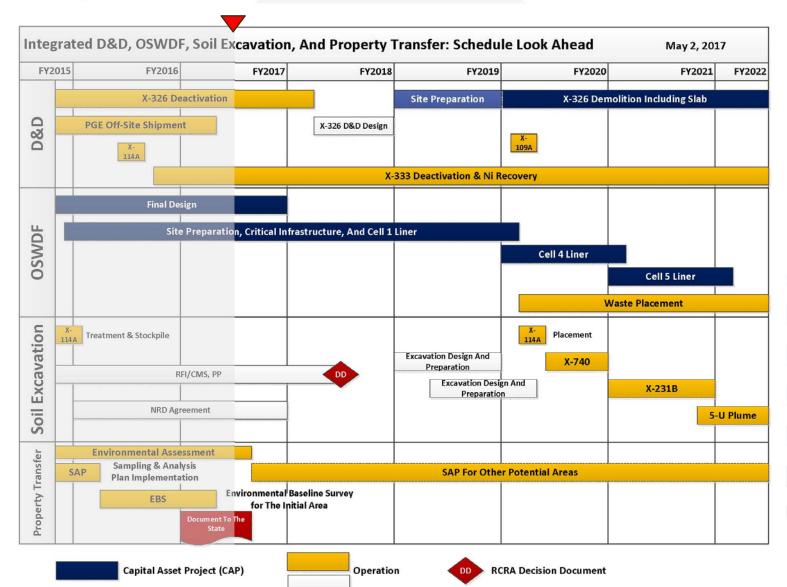
FBP ProForce - One Year Injury-Free



YOU are the KEY to SAFETY! 3

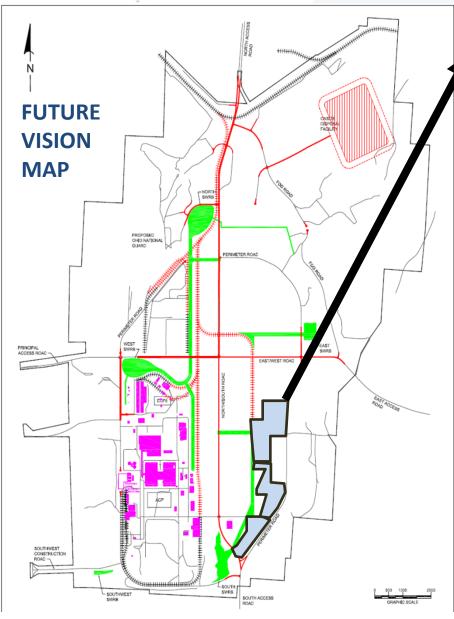


PORTS Integrated Baseline





Property Transfer

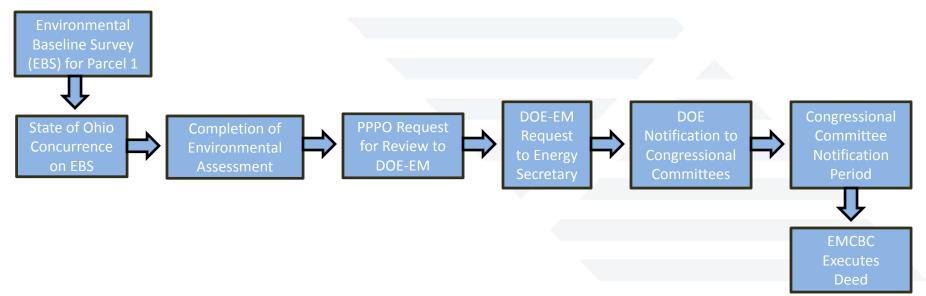


BEGINNING STEPS TO REINDUSTRIALIZATION Parcel 1 Activities

- Nearing completion of comment resolution from Ohio EPA and ODH on Environmental Baseline Survey (EBS)
- Public comments from Property Transfer
 Environmental Assessment under review
- State concurrence of Parcel 1 EBS and DOE completion of EA are key components of Parcel 1 transfer
- Draft Business Case for transfer of Parcel 1 completed
- Parcel 1 transfer package on schedule for delivery to DOE-HQ by end of FY2017



Property Transfer



This is a high level overview of key steps in the property transfer process as outlined by 10 CFR 770 – Transfer of Real Property at Defense Nuclear Facilities for Economic Development.



Project Update

Mission Incredible: Cleaning Up the X-326 (Criticality Incredible determination is a key step)

Right, NDA personnel measure and analyze the vent stack at the X-326 facility in 2016.



Left, in 2014, Radiological Control Technicians surveyed the bottom cavities of each packaged component exiting the X-326 Building before it was fastened to the trailer.



Process gas equipment in the X-326 was lowered from the cell to the operations floor for packaging.



Tieline Project Complete at X-326







Project Update X – 333 Update





Small Cylinder Processing Project, First Milestone Met



Chemist Ron Day, checks documentation in the subsampling lab. He performs a large part of the transfers, cleaning and disassembly operations.



Project Update – Balance of Plant

Emergency Operation Center Upgrades



Emergency Operation Center (EOC) To Be Updated



Joint Information Center (JIC)

To Be Updated

Roofing Makeover at the



Above, an off-road crane was used to lift supplies for the crew.

Right, Workers place the boundary lines to create a safe work environment for the roofing project.

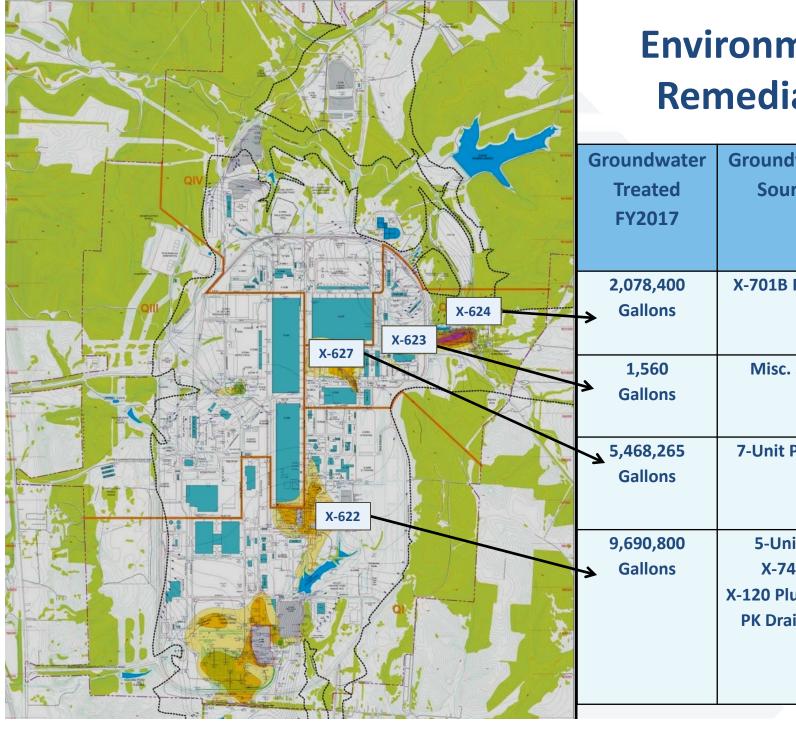


OSWDF Update

Testing Complete on Water Lines at OSWDF







Environmental Remediation

| Groundwater Treated FY2017 | Groundwater Source | TCE Removed FY2017 Ibs. |
|----------------------------|---|-------------------------|
| 2,078,400 Gallons | X-701B Plume | 74.31 |
| 1,560 Gallons | Misc. Site | 0 |
| 5,468,265 Gallons | 7-Unit Plume | 47.00 |
| 9,690,800 • Gallons | 5-Unit & X-749/ X-120 Plumes & PK Drainage | 12.53 |
| | | 13 |



Community Outreach – SODI Donations

Material Donated To SODI



Latex Gloves 14,700 lbs.





Forklift 13,420 lbs.



New Steel 66,960 lbs.



Welding Wire 1,056 lbs.



Cleaning Sup. 262 lbs.



Brush Chipper 8,000 lbs.



Plant Tours

Scioto Valley School District Board Members



Por s Do Ruje

At left, Environmental Remediation Director JD Chiou talks about the multiple lining systems that make up the disposal cell liner and cap.

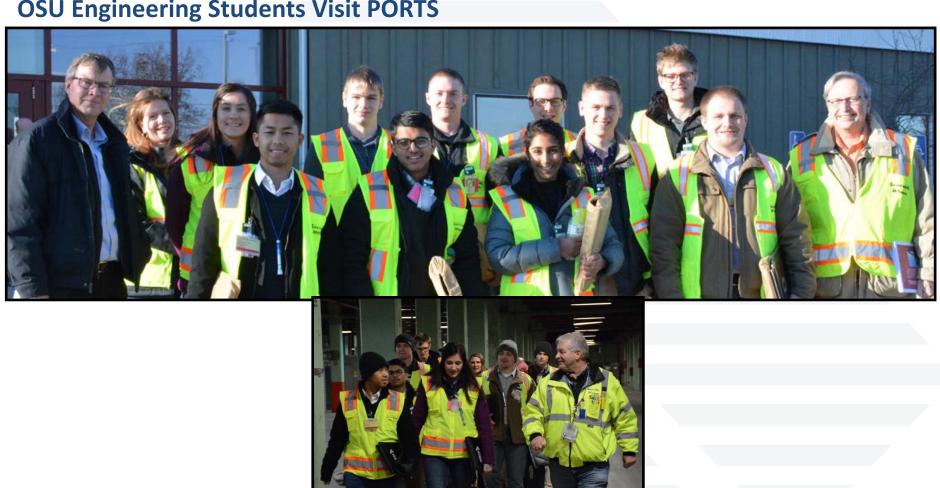


Educational Outreach – Science Bowl V





OSU Engineering Students Visit PORTS





Community Outreach











PMA recipient of 2016 Chillicothe Ross Chamber of Commerce Group and 100% Award



Upcoming Site Events



Public Tour Saturday, June 20, 2017



Public Tour Saturday, July, 15, 2017



SSAB Executive Planning Session August 2017 Date TBD

To register for the public tours, please contact Sandy Childers sandy.childers@fbports.com or 740-897-2336.





Depleted Uranium Hexafluoride (DUF₆)
Project at Portsmouth

Who we are



Mid-America Conversion Services is comprised of world class companies led by Atkins Global Nuclear with Westinghouse Electric Company and Fluor Federal Services



 Atkins brings program management, nuclear/chemical operations, and commercial waste processing expertise



 Westinghouse Electric Company (WEC) brings a cumulative 162 years of experience operating 3 uranium conversion facilities



 Fluor Federal Services, Inc. (Fluor) provides efficient integration into the Paducah and Portsmouth sites

Our Leadership Team





Bob Giroir serves as Plant Manager in Portsmouth, Ohio.



Alan Parker is the President and Project Manager located in Lexington, Kentucky.

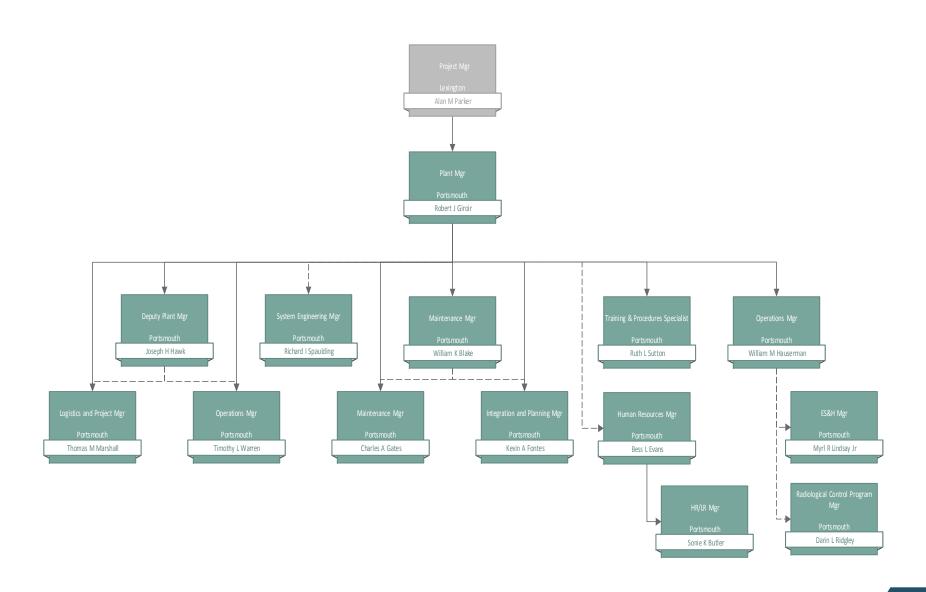


Phillip Weaver serves as Plant Manager in Paducah, Kentucky.



MCS Portsmouth Leadership Team





MCS Vision



- To be recognized as the best DOE Prime Contractor because we
 - Deliver Safe-Sustainable-Performance
 - Operate the site conversion processes safely, compliantly, and efficiently, while meeting our production commitments



- Treat our employees, our client, our subcontractors, our stakeholders, and the public ethically and with respect
- Exceed our client's expectations

Purpose of the Portsmouth DUF₆ Project



- Convert the Department of Energy's (DOE) existing depleted Uranium Hexafluoride (DUF₆) inventory and disposition Hydrofluoric Acid (HF)
- DUF₆ inventory of ~19,000 cylinders at Portsmouth containing ~227,000 metric tons is estimated to take ~ Approx. 20 years to process

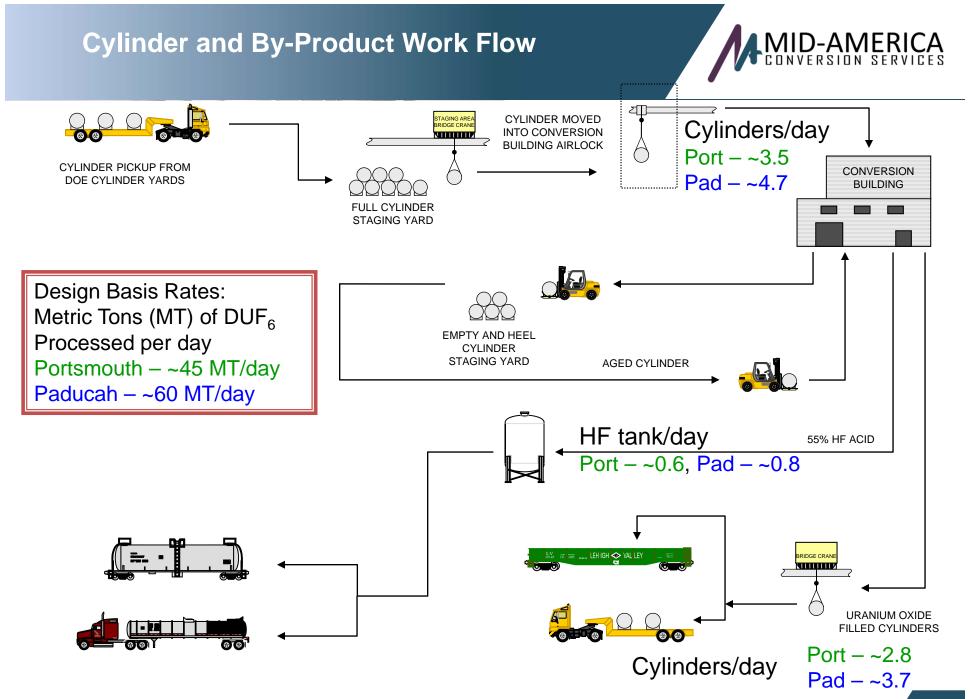


Portsmouth Conversion Facility

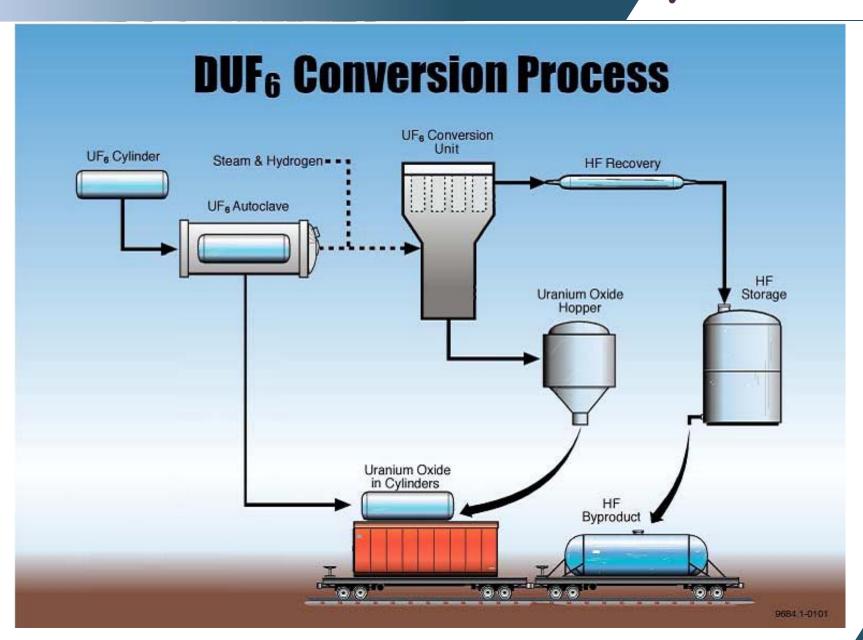


- Plant staff consists of 219 personnel
- Plant consists of over thirty-five systems including process and balance of plant, i.e. utilities
- Designed for 24/7 operations
- Three process lines at Portsmouth vs. four process lines at Paducah









Cylinder Yards



- Manage cylinder yards consistent with DOE approved:
 - Safety Basis (Hazard Category 2 Nuclear Facility)
 - Nuclear Material and Accountability Plans
- Day-to-day management of the DUF₆ cylinders includes:
 - Performing regular inspections and general maintenance of cylinders and storage yards
- Cylinders are typically stacked two high
- Cylinders generally contain about 12 metric tons of DUF₆
- Cylinders are generally 12 ft long by 48-inches in diameter, with a steel wall thickness of 5/16.





Transportation – Aqueous HF



- Shipments are a combination of both truck and rail
- Each truck shipment contains approximately 4,000 gallons
 - o Maximum of 12 shipments each week
- Each railcar shipment contains approximately 18,000 gallons
 - Maximum of 3 railcars each week



Key Safety Aspects



- Conversion process operates at near atmospheric pressures
- UF₆ vaporization via electrical power for better temperature control
- Cylinder autoclave is an ASME-rated pressure vessel in case of a cylinder rupture
- A filtration system removes all uranium, additional down stream detector
- HF condenser removes most HF, then scrubbers eliminate balance
- Centralized, automated process controls
- Nuclear Safety Culture embedded into the organization
- Human Performance best practices

Current Status



Path Forward:

- Equipment repaired and tested
- Management Self Assessment (MSA)
- Contractor Readiness Assessment (CRA)
- DOE Readiness Assessment (RA)

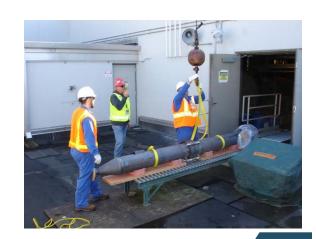
Goal:

Achieve 3 Process Line(s) Operational by September 30, 2017.











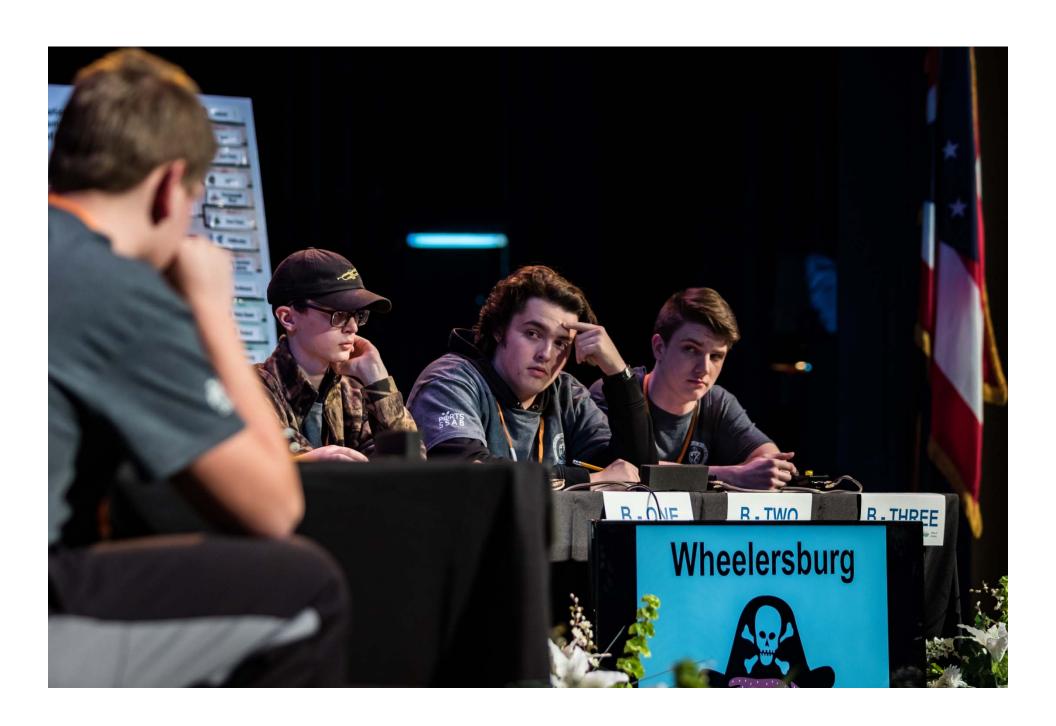
QUESTIONS





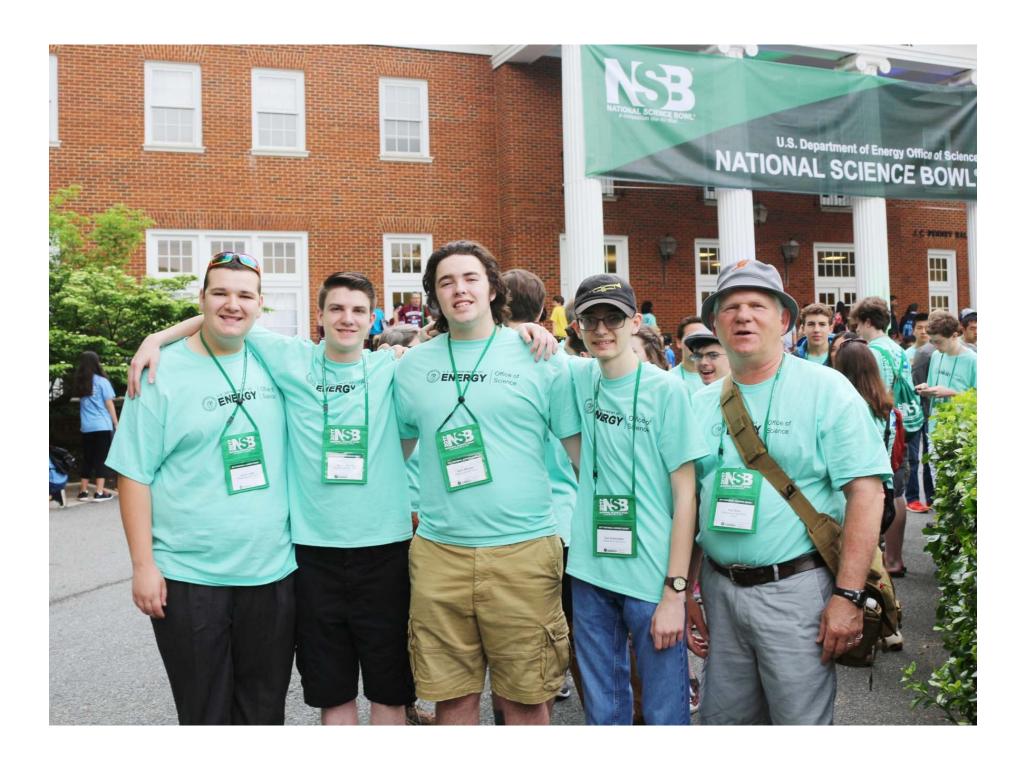
















ASER 6 Student Summary Project

In collaboration with the Chemistry students at Piketon High School

Important aspects of the project

- Rotates yearly between local high schools
 - Eastern Local
 - Western Local
 - Piketon HS
 - Waverly HS
- Educates local students about the environmental restoration activities that take place at the PORTS site
 - ► Through hands-on field trips to the PORTS site and Lake Hope State Park
 - Through Subject Matter Expert presentations
 - ► Chemistry and Wildlife Conservation Professors
 - Environmental Specialists
 - SSAB members
 - ▶ DOE representatives and contractors who work on-site









Important aspects of the project,

continued

Teaches them technical writing skills

> Through summarizing the technical ASER document each year



Deliverables

- Student Summary Document of the full ASER document
 - Which is distributed widely throughout the region to multiple stakeholders, including:
 - ▶ Public officials, state and local levels
 - Local libraries
 - Participating High Schools
 - Students
 - ▶ Published online at <u>www.portsfuture.com</u>

Student Summary of the U.S. Department of Energy Portsmouth Annual Site Environmental Report (ASER) for 2013

